UTAH DIVISION OF OIL AND GAS CONSERVATION

REMARKS: WELL LOG____ ELECTRIC LOGS____ FILE X WATER SANDS____ LOCATION INSPECTED____ SUB. REPORT/abd.____

DATE FILED 7-29-77

LAND: FEE & PATENTED STATE LEASE NO. PUBLIC LEASE NO. U-14335 INDIAN

DRILLING APPROVED: 7-27-77

SPUDDED IN:

COMPLETED: PUT TO PRODUCING:

INITIAL PRODUCTION:

GRAVITY A.P.I.

GOR:

PRODUCING ZONES:

TOTAL DEPTH:

WELL ELEVATION:

DATE ABANDONED: 5-15-79 Location abandoned; well never drilled

FIELD: ~~Wildcat~~ 3/86 Greater Cisco

UNIT:

COUNTY: Grand

WELL NO. Federal #4-Federal 335 API NO: 43-019-30384

LOCATION 1980 FT. FROM (N) (S) LINE. ~~1930~~ 2130 FT. FROM (E) (W) LINE. C SE NW ¼ – ¼ SEC. 19

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
				19S	23E	19	ANSCHUTZ CORP.

5-15-79-Location Abandoned, Well never drilled)

FILE NOTATIONS

Entered in NID File	✓	Checked by Chief	
Location Map Pinned		Approval Letter	✓
Card Indexed	✓	Disapproval Letter	

COMPLETION DATA:

Location Inspected .....

State or Fee Land .....

LOGS FILED

Driller's Log.....

Electric Logs (No.) .....

..... Dual I Lat..... GR-N..... Micro.....

..... Mi-L.....

dje
9/27/90

ENVIRONMENTAL ENGINEERING COMPANY
Professional Engineering Services

P. O. Box 3341
Casper, Wyoming 82601
Phone (307) 234-6186

1645 Court Place
Suite 229
Denver, Colorado 80202
Phone (303) 892-1506

July 19, 1977

Cleon Feight
Utah Oil & Gas $ Mining
1588 West, North Temple
Salt Lake City, Utah 84116

RE: Permits to drill
Anschutz Corporation
Various wells
Grand Co., Utah

Dear Cleon:

Enclosed are several items on the above with comments or questions, as follows:

(1) REVISED TYPE OF WORK ON 9-331C AND ACRES ASSIGNED:
On Anschutz #1 & #2 Federal 675 and #1 Federal 104, and
#1, #2, #3 and #4 Federal 335

AMEND TO READ: "Oil Well or Gas Well" "single or multiple zones" (1a and 1b).
"40-acres or 80-acres, if an oil well", and
"160-acres or as spaced, if gas well, and to not produce from same gas zone horizon of any other gas wells within the spacing unit area" (#17 on 9-331C).

Revised copies of Form 9-331 C are enclosed for changes.

(2) ANSCHUTZ #1, #2, #3 and #4 FEDERAL 335:

It is possible I have not sent you applications for permission to drill the four wells. Therefore these applications are enclosed, together with location plats and maps.

(3) STATUS OF REQUESTS TO DRILL BY ANSCHUTZ:

I enclose a three-page status sheet of wells ready or being prepared to drill by Anschutz, on which I have worked. Would you kindly examine this report and advise me of any changes from this or any reports that you might need. I believe all these wells have now been filed with you now, and, I am wanting to make certain that Utah has approved, or is about to approve, all of these locations as noted.

I am most appreciative of all the help you have given us there in the Oil, Gas and Mining Division.

Best wishes!

George H. Fentress
Agent Consultant Anschutz

cc. Anschutz

Form 9-331 C
(May 1963)

SUBMIT IN T PLICATE*
(Other instr ns on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: U-14335

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

1a. TYPE OF WORK: DRILL ☒ DEEPEN ☐ PLUG BACK ☐

b. TYPE OF WELL: OIL WELL ☒ OR GAS WELL ☒ OTHER — SINGLE ZONE ☒ OR MULTIPLE ZONE ☒

8. FARM OR LEASE NAME: Federal

2. NAME OF OPERATOR: The Anschutz Corporation

9. WELL NO.: #4-Federal 335

3. ADDRESS OF OPERATOR: 1110 Denver Club Building, Denver, Colorado 80202

10. FIELD AND POOL, OR WILDCAT: Wildcat

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1980' FNL, 1930' FWL (C SE NW)
At proposed prod. zone: Same

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 19-T19S-R23E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 39 miles from Thompson, Utah (Exhibit "E")

12. COUNTY OR PARISH: Grand — 13. STATE: Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 1930' FWL

16. NO. OF ACRES IN LEASE: 874.20

17. NO. OF ACRES ASSIGNED TO THIS WELL: 40 OR 80 (oil) 160 A (gas)

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.:

19. PROPOSED DEPTH: 3910'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 5131' ungraded ground elevation

22. APPROX. DATE WORK WILL START*: 15, Aug., 1977

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24#	200'	180 sacks
7 7/8"	4 1/2"	9.5#	3910'	200 sacks

1. Drill 12 1/4" hole to 200' and set surface casing.
2. Drill 8 5/8" hole to T. D.
3. Log B. O. P. tests daily.
4. Run electric logs; if productive, run 4 1/2" casing.

Exhibits Attached

"A" Location and Elevation Plat
"B" The Ten-Point Compliance Program
"C" The Blow-out Preventer Diagram
"D" The Multi-point Requirement for A. P. D.
"E" Access Road Map into Location
"F" Radius Map of Wells in Area
"G" Drill Pad Layout, Contours and Cut-Fill Section
"H" Drill Rig and Production Facilities Layout

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.
SIGNED George H. Fentress — TITLE Agent Consultant for The Anschutz Corporation — DATE

(This space for Federal or State office use)

PERMIT NO. 43-019-30384 — APPROVAL DATE

APPROVED BY — TITLE — DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: U-14335

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

1a. TYPE OF WORK: DRILL ☒ DEEPEN ☐ PLUG BACK ☐

b. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ OTHER — SINGLE ZONE ☐ MULTIPLE ZONE ☒

8. FARM OR LEASE NAME: Federal

2. NAME OF OPERATOR: The Anschutz Corporation

9. WELL NO.: #4-Federal 335

3. ADDRESS OF OPERATOR: 1110 Denver Club Building, Denver, Colorado 80202

10. FIELD AND POOL, OR WILDCAT: Wildcat

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1980' FNL, 1930' FWL
At proposed prod. zone: Same

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 19-T19S-R23E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 39 miles from Thompson, Utah (Exhibit "E")

12. COUNTY OR PARISH: Grand — 13. STATE: Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 1930' FWL

16. NO. OF ACRES IN LEASE: 874.20

17. NO. OF ACRES ASSIGNED TO THIS WELL: 160 A

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.:

19. PROPOSED DEPTH: 3934'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 5131' ungraded ground elevation

22. APPROX. DATE WORK WILL START*: 15, Aug., 1977

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24#	200'	180 sacks
7 7/8"	4 1/2"	9.5#	3934'	200 sacks

1. Drill 12 1/4" hole to 200' and set surface casing.
2. Drill 8 5/8" hole to T. D.
3. Log B. O. P. tests daily.
4. Run electric logs; if productive, run 4 1/2" casing.

Exhibits Attached

"A" Location and Elevation Plat
"B" The Ten-Point Compliance Program
"C" The Blow-out Preventer Diagram
"D" The Multi-point Requirement for A. P. D.
"E" Access Road Map into Location
"F" Radius Map of Wells in Area
"G" Drill Pad Layout, Contours and Cut-Fill Section
"H" Drill Rig and Production Facilities Layout

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED George H. Fentress — TITLE Agent Consultant for The Anschutz Corporation — DATE

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

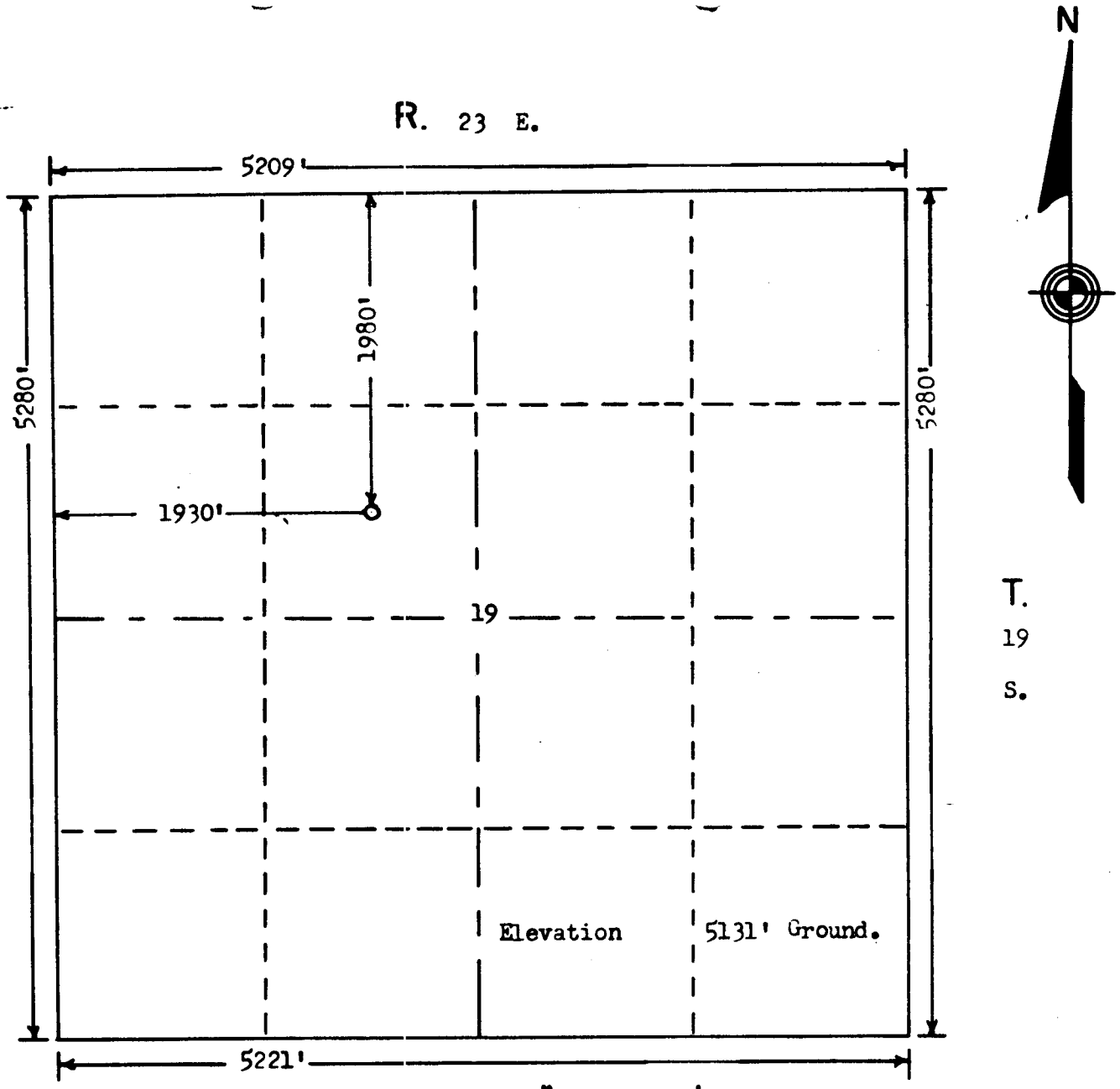
APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

FORM F-106

EXHIBIT "A"



Scale··· 1" = 1000'

Powers Elevation Company, Inc. of Denver, Colorado has in accordance with a request from George Fentress for Anschutz Corporation determined the location of #4 Federal-335 to be C SE NW Section 19 Township 19 S. Range 23 E. of the Salt Lake Base and Meridian Grand County, Utah

I hereby certify that this plat is an accurate representation of a correct survey showing the location of #4 Federal-335

Date: 6-29-77

T Nelson

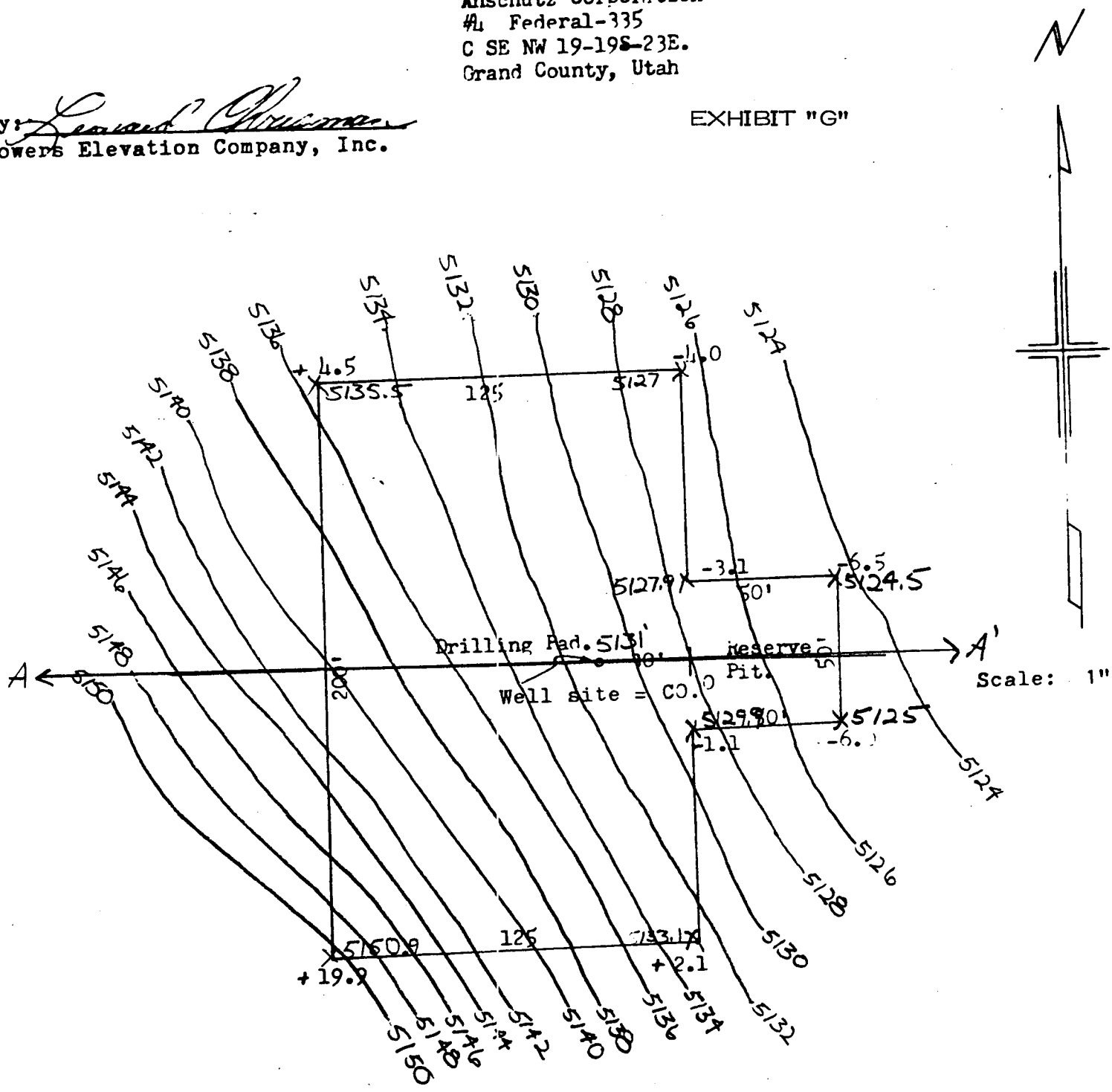
Licensed Land Surveyor No. 2711
State of Utah

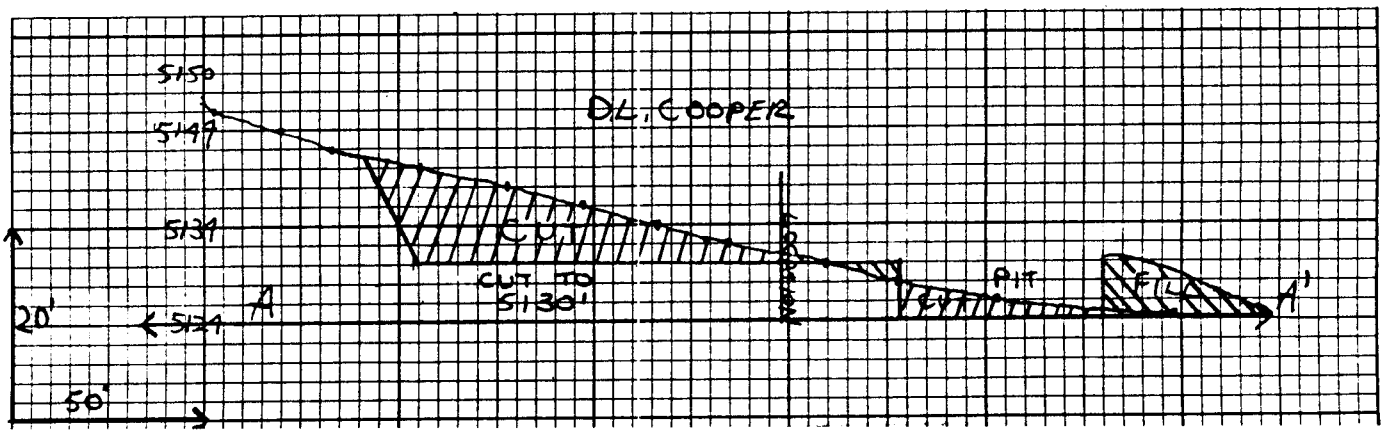
TOPOGRAPHIC MAP

Anschutz Corporation
#4 Federal-335
C SE NW 19-19S-23E.
Grand County, Utah

by: Leonard Chrisman
Powers Elevation Company, Inc.

EXHIBIT "G"





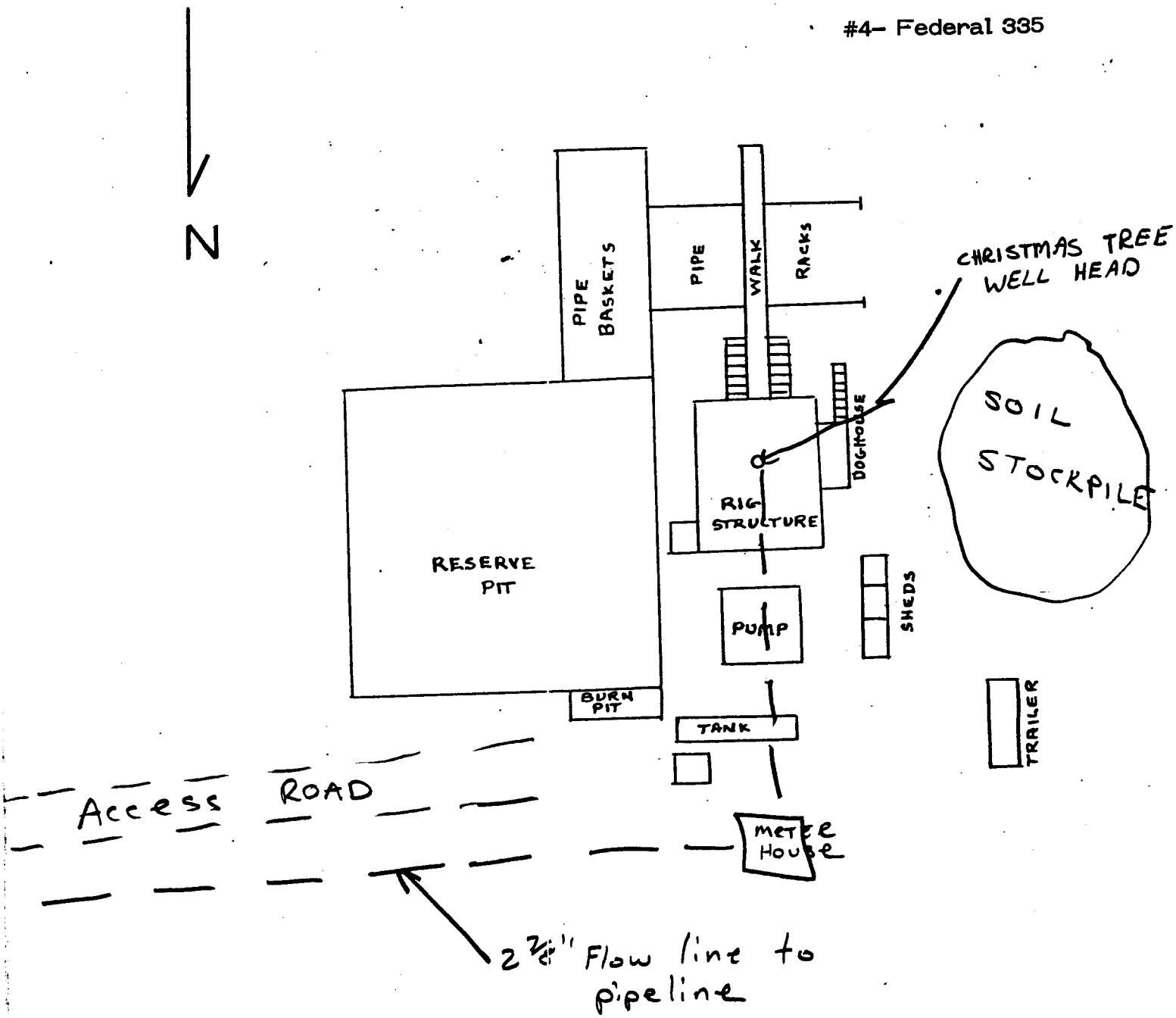
46 0782

Simplified Rig Layout

Small Location

EXHIBIT "H"

#4– Federal 335



ENVIRONMENTAL ENGINEERING COMPANY
Professional Engineering Services

P. O. Box [illegible]
Casper, [illegible]
Phone [illegible]

1645 Court Place
Suite [illegible]
Denver, Co [illegible]
Phone [illegible]

July 8, 1977

Mr. Edgar W. Guynn, District Engineer
U. S. Geological Survey
8426 Federal Building
Salt Lake City, Utah 84138

Re: Filing NTL-6 & ADP
Form 9-331C
The Anschutz Corporation

#1 Federal 335
1880' FNL, 1982' FEL
#2 Federal 335
730' FNL, 600' FWL
Both in Sec. 20, T19S, R23E
#3 Federal 335
690' FSL, 1610' FEL
#4 Federal 335
1980' FNL, 1930' FWL
Both in Sec. 19, T19S, R23E
All in Grand County, Utah

Dear Mr. Guynn:

Enclosed are three copies of the above filings. Two copies are for the U. S. G. S. and one copy is for the B. L. M. Would you please forward the report to the B. L. M. and advise us when it is most convenient to make a ground inspection.

Very truly yours,

George H. Fentress
Agent Consultant
The Anschutz Corporation

GHF/twp
cc: Wayne Pierce
Anschutz

EXHIBIT "B"

TEN-POINT COMPLIANCE PROGRAM OF NTL-6
APPROVAL OF OPERATIONS

Attached to Form 9-331C
The Anschutz Corporation

(1) #1-Federal 335
(2) #2-Federal 335
Both in Section 20 T19S-R23E
(3) #3-Federal 335
(4) #4-Federal 335
Both in Section 19 T19S-R23E
All in Grand County, Utah

1. The Geologic Surface Formation

The surface is alluvial and colluvial material derived from the sedimentary formations which form the steep walls of Spring, Cottonwood, and Diamond Canyons. The formations are principally brown and gray sandstones and siltstones of the Tertiary Wasatch Formation and massive gray and buff sandstones with interbedded gray shales of the Tuscher, Farrer, Nelson and Sego Formations of the Upper Cretaceous Mesaverde Group.

2. Estimated Important Geologic Markers

See Table I

3. Estimated Depths of Anticipated Water, Oil, Gas, or Minerals

See Table II

4. The Proposed Casing Program

All three wells will run 200' of 8 5/8" new K-55, 24# casing in a 12 1/4" surface hole. Casing will be set with 150 sacks of Class G cement with return flow to the surface.

In the event of production, each well will set 4 1/2" new J-55 9.5# Production casing in a 7 7/8" hole at T.D. This will be set with 200 sacks of 50-50 Posmix with 2% Gel and 2% $CaCl_2$.

5. The Operators Minimum Specifications For Pressure Control

Exhibit "C" is a schematic diagram of the blowout preventer equipment planned for use in these wells. The BOP's will be hydraulically tested to the full working pressure after nippling up and after any use under pressure. Pipe rams will be operationally checked each 24 hour period. The blind rams and annula preventer will be checked each time pipe is pulled out of the holes. All testings will be recorded in the daily drill sheets. Accessories to BOP's include upper and lower kelly cock, floor safety valve, drill string BOP and choke manifold with pressure rating equivalent to the BOP stack.

6. The Type and Characteristics of Proposed Muds

(a) It is planned that each well will be drilled with air from the base of the surface casing to the total depth. If air is abandoned, then (b) and (c) will be used.

(b) If air drilling is abandoned, then the hole will be drilled with native muds to 4000'.

(c) From 4000' to TD the hole will be drilled with Chem-Gel with the mud weighted as necessary for good hole conditions. The water loss will be kept from 8 to 12cc and the viscosity between 35 and 45.

7. The Auxilliary Equipment To Be Used

(a) A kelly cock will be kept in the string at all times.
(b) A float will be used at the bit al all times.
(c) A gas detecting device will monitor the systems.
(d) A stabbing valve will be on the floors to be stabbed into the drill pipes when kelly cock is not in the string.

8. The Testing, Logging, and Coring Programs

(a) The top 30' of porous zone in the Entrada will be tested, as will all strong, valid shows.

(b) If air drilled, an induction log will be run from TD to the base of the surface casing and gamma ray, compensated formation density, and sidewall neutron porosity logs will be run at the minimum footage. If the holes are fluid filled, a dual induction log will be run from TD to the base of the surface casing and gamma ray, compensated formation density, and compensated neutron logs will run at the minimum footage.

(c) No coring is anticipated.

9. Any Anticipated Abnormal Pressures or Temperatures Expected

No abnormal pressures or temperatures have been noted or reported in the wells drilled in this area to these depths. No hydrogen sulphide or other hazardous gases or fluids have been found reported or known to exist at these depths in this area.

10. The Anticipated Starting Date and Duration of Operations

The anticipated starting date is set for August 15, 1977, or as soon as possible after examination of the surface and approval of all drilling requirements.

The operation should be completed within 20 days after spudding the well and drilling to the casing point.

TABLE I

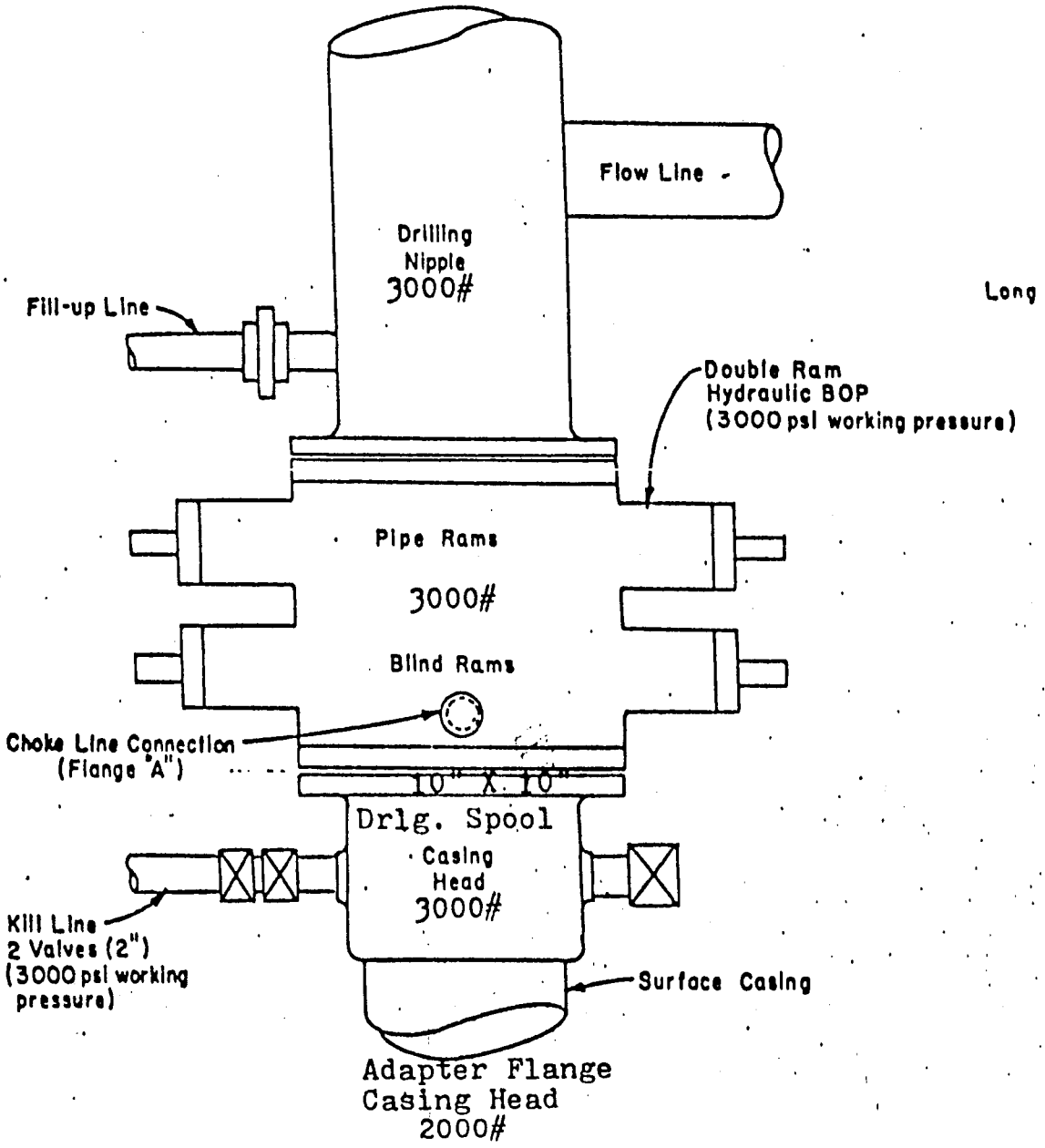
Estimated Important Geologic Markers

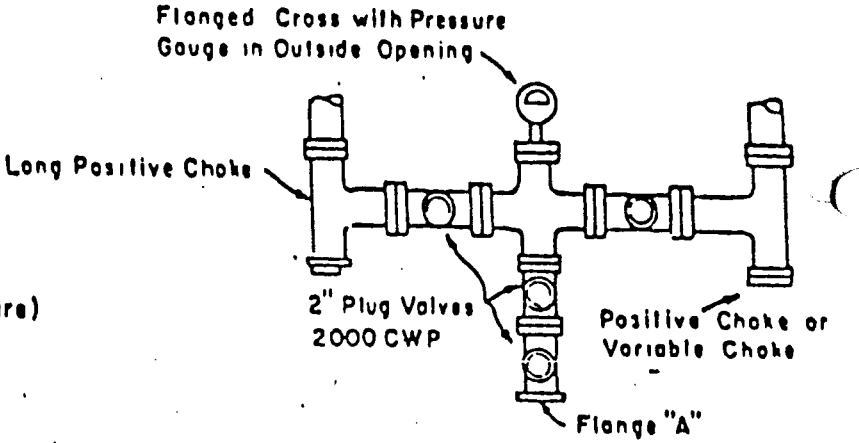
Formation	#1-Fed 335 Depth	#1-Fed 335 Elev.	#2-Fed 335 Depth	#2-Fed 335 Elev.	#3-Fed 335 Depth	#3-Fed 335 Elev.	#4-Fed 335 Depth	#4-Fed 335 Elev.
Mancos	Surface----------							
Dakota	2750'	+2297'	2739'	+2298'	3384'	+1827'	3237'	+1900'
Morrison	2879'	+2168"	2869'	+2168'	3514'	+1661'	3367'	+1770'
Salt Wash	2992'	+2055'	2984'	+2053'	3629'	+1546	3482'	+1655'
Entrada	3194'	+1853'	3184'	+1852'	3831'	+1344'	3684'	+1453'
ETD	3445'	+1604'	3440'	+1596'	4080'	+1095'	3934'	+1203'

TABLE II

Estimated Depths of Anticipated Water, Oil, Gas, or Minerals

Formation and Anticipated Fluid	#1-Fed 335	#2-Fed 335	#3-Fed 335	#4-Fed 335
Dakota Gas and/or Water	2750'	2739'	3384'	3237'
Morrison Gas and/or Water	2879'	2869'	3514'	3367'
Entrada Gas	3194'	3184'	3831'	3684'





PLAN VIEW - CHOKE MANIFOLD

Blowout Preventer Diagram

Anschutz Corporation

#1- Federal 335
#2- Federal 335
#3- Federal 335
#4- Federal 335

EXHIBIT "C"

EXHIBIT "D"

MULTIPOINT REQUIREMENTS TO ACCOMPANY APD

1) Federal 335
2) Federal 335 Sec. 20 T19S-R23E
3) Federal 335
4) Federal 335 Sec. 19 T19S-R23E
Grand County, Utah

1. Existing Roads

A. EXHIBIT "A" is the proposed well sites as staked by Powers Elevation Service, and the ground elevation is shown thereon.

B. EXHIBIT "E" is a color coded map prepared from the Southeastern Central Utah Map No. 2 of the Utah Travel Council, and was used because general features show more prominantly than other maps found. One travels 26 miles on I-70 from Thompson, Utah to the East Cisco exit, then 13 miles north on gravel and dirt road to the junction of Diamond Canyon, Cottonwood Canyon and Spring Canyon. Wells 3 and 4 are several hundred yards to the west of the existing road. All well sites are on gentle slopes just below the Book Cliffs. Green shows where access roads must be built.

C. EXHIBIT "F" is prepared from the 7 1/2' U. S. G. S. Flume Canyon Topographic Quadrangle. The red color shows the Existing, usable road and the corral and ranch buildings. The green color indicates the road which must be built to provide access to the location.

D. This is an exploratory well and all known existing roads in the area that could be found are shown on the map in red color. Generally, the access road is fair gravel with hard dirt in spots, and all other roads shown are generally hard packed dirt, apparently slippery when wet.

E. This is not a development well.

F. There is no plan to improve or maintain existing roads.

2. Planned Access Roads

(1) The width of the access roads into each well need not exceed 16 feet.

2. Planned Access Roads cont'd

(2),(3),(4) Maximum grade will be about 1%. There will probably be no need for turnouts or drainage design buring drilling. If production is obtained, then several culverts will be installed as needed to provide good drainage off the roads if the creek should be flowing or in the event of flash floods.

(5) No culverts will be needed. No major cut and fill is anticipated for the construction of the access roads.

(6) No surfacing materials will be needed unless production is obtained, in which case local stream gravel will be used.

(7) No gates, fence cuts, or cattleguards are needed.

(8) No center line flagging is necessary.

3. Location of Existing Wells

These are exploratory wells, and the best current status of wells within a two mile radius is given in Exhibit "F".

(1) No known water wells exist in the area.

(2) As shown in Exhibit "F", there are dry holes in Section 12 and Section 13 of T19S-R22E.

(3),(4),(5),(6),(7),(8),(9) There are no known temporarily abandoned, disposal or drilling wells in the area as well as no producing, shut-in, injection or observation wells.

4. Location of Existing and/or Proposed Facilities

A. There are no existing facilities owned or controlled by operator within a 1 mile radius of the location. However, a gas pipeline owned by Northwest Pipeline runs through Diamond Canyon and at the junction of the three canyons and runs along wells 3 and 4. The planned access roads will run over the pipeline.

B. (1) Exhibit "H" shows all anticipated drilling and production facilities.

(2) The dimensions of the facilities shown on Exhibit "H" are roughly drawn to a scale of 1 inch=50 feet.

(3) No materials other than that available on locations are anticipated to be neeced for construction.

4. Location of Existing and/or Proposed Facilities cont'd

(4) Rehabilitation, whether the wells are productive or dry, will be made on unused areas as soon as possible in accordance with plans drafted in Item 10 following. No water production is anticipated which would require flagging.

C. See Item 10 that follows for restoration plans.

5. Water Supply

A. It is anticipated that the wells will be drilled with air to T. D. However, if necessary water may be obtained for drilling purposes by constructing a shallow backwater pool in the small perennial streams found in the upper reaches of either Diamond Canyon or Cottonwood Canyon. No new roads will have to be constructed for access. The construction of the pool and the accompanying requirements in terms of permission will be left up to the drilling contractor. The only other feasible water source known is the Colorado River approximately 30 miles away.

B. Transportation of any water used will be by trucks on existing roads or by pipeline, depending on the water source selected.

C. No water well will be drilled.

6. Construction Materials

A., B., C., D. No construction materials are needed for drilling operations. The sand, gravel and rock located in sites are adequate for any construction necessary in connection with either dry or producing wells. There is no access route needed for crossing Indian land. The access route for crossing Federal land is shown in green in Exhibit "E".

7. Handling Waste Disposals

(1) Drill cuttings will be buried in the reserve pits when covered.

(2) Drilling fluids will also be handled in the reserve pits.

7. Handling Waste Disposals cont'd

(3) Any fluids produced while drill stem testing or producing or other testing will be collected in a test tank set near the pipe baskets or near the well head. Any unavoidable spills of oil or other adverse substances or materials will be covered or removed immediately during drilling progress or during completion operations.

(4) Any sewage will be covered or removed.

(5) Garbage, wastes and non-flammable wastes, salts and other chemicals produced or used during drilling or testing will be handled in the reserve pits or kept in the trash or burn pits. The trash or burn pits will be covered with small wire mesh to prevent scattering.

(6) The reserve pits, in addition to the trash or burn pits, will be fenced on three sides during drilling operations, and iron or other posts and wire fencing will be available on location immediately upon cessation of drilling and the fourth side of the reserve pits will be fenced prior to full removal of the rig from the location. Any other dangerous or harmful pits or sewage areas will also be fenced or covered at the time rig moves off location.

8. Ancillary Facilities

No airstrips, camps, or other living facilities will be built or needed.

9. Well Site Layout

(1) Exhibit "G" are the drill pad layouts as staked by Powers Elevation Company. Elevation contours have been drawn on the plat by Cooper. The cut-fill cross sections A-A' have been drawn from these contours. The placement of the 6 inch surface soil banks are also shown on these plats.

(2) The mud tanks, pits, rig orientation, etc. is shown on Exhibit "H". If the wells are drilled by air, these facilties may change accordingly.

(3) Exhibit "H" also shows rig orientation parking and road into drill pads.

(4) The reserve pits will not be lined. Steel mud pits, if used, will be as shown in Exhibit "H".

10. Plans for Restoration

(1) Backfilling, leveling and contouring will be accomplished as soon as possible after plugging of the wells, or immediately on those areas unused if production is obtained. Waste disposal and spoils materials will be buried or hauled away immediately before rig moves off locations.

(2) Rehabilitation will be accomplished by spreading the banked topsoil over the area and contouring the banks that will be created in this heavily eroded area so that vegetation planted will be best protected from erosion. Revegetation will be accomplished using grasses or mixtures suited best for the dry, arid conditions encountered here. The access roads will be revegetated as needed, but it may be preserved for continued use as local access which is currently unavailable.

(3) Prior to rig release, the fourth side of the reserve pits will be fenced and maintained until clean up operations are finished.

(4) Any oil or spills will be immediately cleaned up or flagged.

(5) Rehabilitation operations will commence as soon as the rigs move off locations. However, revegetation will be delayed until the fall of 1977 or the spring of 1978 for optimum growth potential.

11. Other Information

(1) The locations are situated at the base of the Book Cliffs. Long, narrow canyons, the majority of which carry only intermittent stream flow, form the chief topographic features. This area receives very little annual precipitation, but is nevertheless subject to flash flooding. The canyon bottoms are predominantly alluvial or colluvial material consisting of poorly sorted boulders, gravel and sand. The soil, such as it is, is formed from this material and is primarily derived from the Tertiary Wasatch and Upper Cretaceous Mesaverde formations. The Wasatch formation is principally a brown and gray sandstone and siltstone and the Mesaverde Group is composed mainly of massive gray and buff sandstones and interbedded gray shales. Refer to Item 1 of Exhibit "B". Vehicles cannot negotiate the steep canyon walls formed by these resistant rocks.

11. Other Information cont'd

The flora consists mainly of Artemisia tridentata, Artemisia filifolia, Juniperus monosperma, Tamarix gallica, Atriplex confertifolia, Salsola kali, and Rhus aromatica in places. The vegetation constitutes approximately 30-50% of the ground cover. The remaining exposed soils material is highly erodible. The observed animal population is domesticated sheep and cattle and a few deer and rabbits. Other wildlife indigenous to a rugged, semiarid environment is presumed to exist.

(2) Grazing is the only observed surface use in this area. The surface ownership of the locations is entirely Federal, and access across private lands on existing roads has already been approved.

(3) Water, if needed if air drilling is discontinued, poses no problem provided that one of the small streams mentioned in Item 5 A above can be backed up to form a pool 2 to 6 feet in depth. There are no occupied dwellings noted, nor are there any observable archaeological, historical or cultural sites in this area. The archaeological report has been done by Dr. Dale Berge, of Brigham Young University.

The commencement of this well is planned for approximately August 15, 1977 and should drill to the casing point in 20 days or less.

12. Lessee's or Operators Representative

Mr. George H. Fentress
Environmental Engineering Co.
Agent Consultant for The
Anschutz Corporation
1645 Court Place, #229
Denver, CO 80202

Phone: (303) 825-0561
Res: (303) 279-4880

Mr. Wayne Pierce
The Anschutz Corporation, Inc.
1110 Denver Club Building
Denver, CO 80202

Phone: (303) 573-5665
Res: (303) 794-3860

13. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by the Anschutz Corporation, Inc. and its contractors and sub-contractors in conformity with this plan and their terms and conditions under which it is approved.

Date: July 8, 1977

George H. Fentress

Name: George H. Fentress
Title: Agent Consultant for
The Anschutz Corporation

EXHIBIT "E"

Access road map into locations

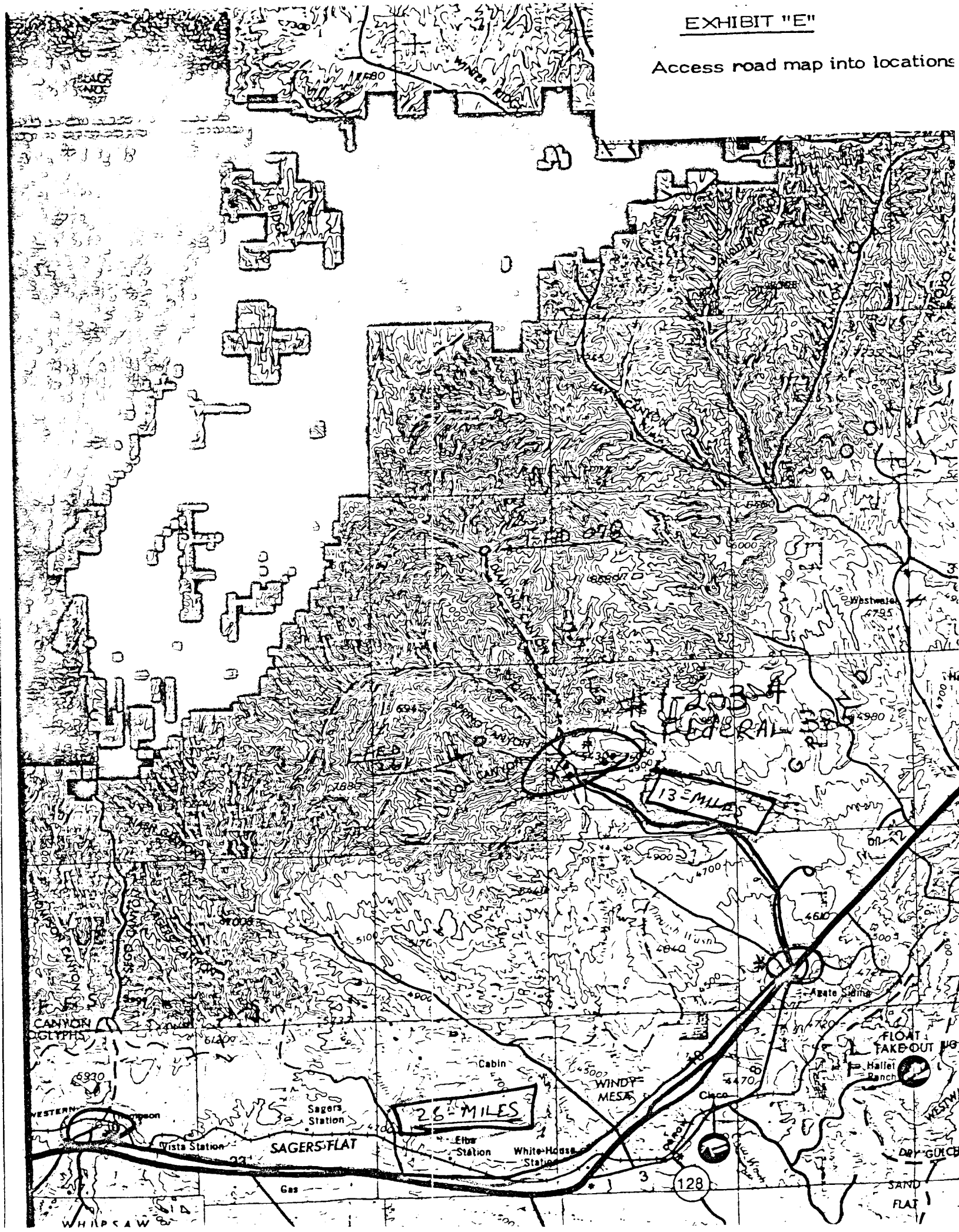
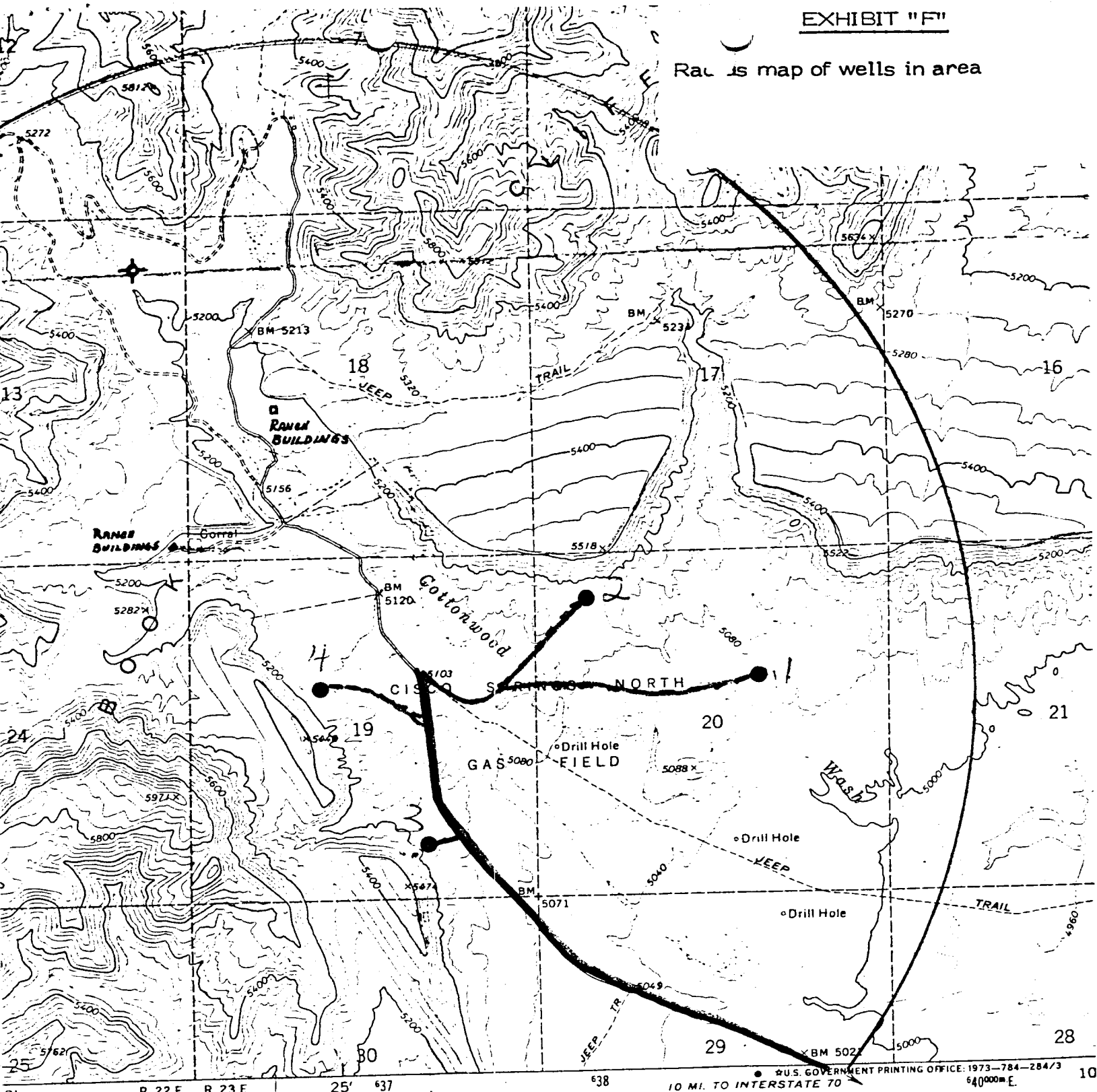


EXHIBIT "F"

Radius map of wells in area



ROAD CLASSIFICATION

Primary highway, hard surface

Secondary highway, hard surface

Light-duty road, hard or improved surface

Unimproved road

Interstate Route U. S. Route State Route

1 MILE

4000 5000 6000 7000/FEET

1 KILOMETER

40 FEET
FOOT CONTOURS
LEVEL

UTAH

QUADRANGLE LOCATION

FLUME CANYON, UT

N3907.5—W10922.5/7.5

1970

AMS 4162 III NW—SERIES V897

AP ACCURACY STANDARDS
ORADO 80225, OR WASHINGTON, D. C. 20242
SYMBOLS IS AVAILABLE ON REQUEST

STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING

** FILE NOTATIONS **

Date: July 22-

Operator: Anschutz Corporation

Well No: #4 Fed. 335

Location: Sec. 19 T. 19S R. 23E County: Grand

File Prepared [✓] Entered on N.I.D. [✓] API ✓

Card Indexed [✓] Completion Sheet [✓]

CHECKED BY:

Administrative Assistant

Remarks:

Petroleum Engineer

Remarks:

Director

Remarks:

INCLUDE WITHIN APPROVAL LETTER:

Bond Required [✓] Survey Plat Required [ ]

Order No. 102-5 [✓] Surface Casing Change [ ]
to _____

Rule C-3(c), Topographic exception/company owns or controls acreage within a 660' radius of proposed site [ ]

O.K. Rule C-3 [ ] O.K. In _____ Unit [ ]

Other:

[✓] Letter Written/Approved

July 27, 1977

Anschutz Corporation
1110 Denver Club Building
Denver, Colorado

Re: Well No's:
#3 Federal 335, #4 Federal 335
Sec. 19, T. 19 S, R. 23 E,
Grand County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with the Order issued in Cause No. 102-5.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PATRICK L. DRISCOLL - Chief Petroleum Engineer
HOME: 582-7247
OFFICE: 533-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API numbers assigned to these wells are:

#3-335: 43-019-30383 #4-335: 43-019-30384

Very truly yours,

DIVISION OF OIL, GAS AND MINING

CLEON B. FEIGHT
Director

Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: U-14335

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Federal

9. WELL NO.: #4-Federal 335

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 19-T19S-R23E

12. COUNTY OR PARISH: Grand

13. STATE: Utah

1a. TYPE OF WORK: DRILL ☒ DEEPEN ☐ PLUG BACK ☐

b. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ OTHER — SINGLE ZONE ☐ MULTIPLE ZONE ☒

2. NAME OF OPERATOR: The Anschutz Corporation

3. ADDRESS OF OPERATOR: 1110 Denver Club Building, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1980' FNL, ~~1930'~~ 2180' FWL
At proposed prod. zone: Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 39 miles from Thompson, Utah (Exhibit "E")

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 1930' FWL

16. NO. OF ACRES IN LEASE: 874.20

17. NO. OF ACRES ASSIGNED TO THIS WELL: 160 A

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.:

19. PROPOSED DEPTH: 3934'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 5131' ungraded ground elevation

22. APPROX. DATE WORK WILL START*: 15, Aug., 1977

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24#	200'	180 sacks
7 7/8"	4 1/2"	9.5#	3934'	200 sacks

1. Drill 12 1/4" hole to 200' and set surface casing.
2. Drill 8 5/8" hole to T. D.
3. Log B. O. P. tests daily.
4. Run electric logs; if productive, run 4 1/2" casing.

Exhibits Attached

"A" Location and Elevation Plat
"B" The Ten-Point Compliance Program
"C" The Blow-out Preventer Diagram
"D" The Multi-point Requirement for A. P. D.
"E" Access Road Map into Location
"F" Radius Map of Wells in Area
"G" Drill Pad Layout, Contours and Cut-Fill Section
"H" Drill Rig and Production Facilities Layout

RECEIVED NOV 8 1977

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED George H. Fentress — TITLE Agent Consultant for The Anschutz Corporation — DATE

(This space for Federal or State office use)

PERMIT NO. — APPROVAL DATE

APPROVED BY (ORIG. SGD.) E. W. GUYNN — TITLE ACTING DISTRICT ENGINEER — DATE NOV 06 1977

CONDITIONS OF APPROVAL, IF ANY:

Approval notice, Utah State O. & G. & M.

*See Instructions On Reverse Side

U.S. GEOLOGICAL SURVEY, CONSERVATION DIVISION

FROM: DISTRICT GEOLOGIST, SALT LAKE CITY, UTAH

TO: DISTRICT ENGINEER, SALT LAKE CITY, UTAH

Well	Location	Lease No.
Anschutz Corp. No. 4 Fed. 335	1,980 FNL, 1,930 FWL, SEC. 19, T. 19S., R. 23E., SLM, Grand Co., UT.	U-14335

1. Stratigraphy and Potential Oil and Gas Horizons. Proposed TD of 3,934' will collar in Mancos (or alluvium ?) and test the Dakota, Morrison, and Entrada for gas and oil. Critical tops are estimated at: 3,240'-Dakota; 3,370'-Morrison; 3,480'-Salt Wash; and 3,930'-Entrada.

2. Fresh Water Sands. Water suitable for livestock may be found in upper few hundred feet of Mancos where rocks are fractured and (or) sandy.

3. Other Mineral Bearing Formations. (Coal, Oil Shale, Potash, Etc.) None

4. Possible Lost Circulation Zones. Dakota, Burrough Canyon, Brushy Basin, Salt Wash, and Entrada.

5. Other Horizons Which May Need Special Mud, Casing, or Cementing Programs. Insufficient data

6. Possible Abnormal Pressure Zones and Temperature Gradients. Only normal to depth and to the $\underset{g,l}{\rightleftharpoons}$ T, P conditions are anticipated.

7. Competency of Beds at Proposed Casing Setting Points. Probably adequate for APD programmed casing.

8. Additional Logs or Samples Needed. APD logging program is adequate.

9. References and Remarks USGS: Files, SLC, UT

Date: 07-27-77 Signed: Donald C. Alvord

~~State Oil and Gas~~

ATTACHMENT 2-A

SUMMARY OF ENVIRONMENTAL IMPACT EVALUATION

EIA NO. 616

DATE 8-3-77

OPERATOR Anschutz
LEASE # U14335
WELL NO. 4 Federal 335
LOC. ¼SE¼NW SEC. 19
T. 19S R. 23E
COUNTY Grand STATE Ut
FIELD Wildcat
USGS Cook
BLM Crunett
REP: Fentress
DIRT

O	ENHANCES
(blank)	NO IMPACT
/	MINOR IMPACT
X	MAJOR IMPACT

			Construction				Pollution				Drilling Production						Transport Operations			Accidents		Others
			Roads, bridges, airports	Transmission lines, pipelines	Dams & impoundments	Others (pump stations, compressor stations, etc.)	Burning, noise, junk disposal	Liquid effluent discharge	Subsurface disposal	Others (toxic gases, noxious gas, etc.)	Well drilling	Fluid removal (Prod. wells, facilities)	Secondary Recovery	Noise or obstruction of scenic views	Mineral processing (ext. facilities)	Others	Trucks	Pipelines	Others	Spills and leaks	Operational failure	
Land Use	Forestry	NA																				
	Grazing	✓ ~~NA~~	/		/		/	/			/			/			/			/	/	
	Wilderness	NA																				
	Agriculture	NA																				
	Residential-Commercial	NA																				
	Mineral Extraction	NA																				
	Recreation	✓	0		/		/	/			/			/			/			/	/	
	Scenic Views	✓	/		/		/	/			/			/			/			/	/	
	Parks, Reserves, Monuments	NA																				
	Historical Sites		none known																			
	Unique Physical Features	NA																				
Flora & Fauna	Birds	✓	/		/		/	/			/			/			/			/	/	
	Land Animals	✓	/		/		/	/			/			/			/			/	/	
	Fish	NA																				
	Endangered Species		none known																			
	Trees, Grass, Etc.	✓	/		/		/	/			/						/			/	/	
Phy. Charact.	Surface Water	NA																				
	Underground Water	?																				
	Air Quality	✓					/				/						/					
	Erosion	✓	/		/		/	/			/						/			/	/	
	Other																					
	Effect On Local Economy	✓	0		0						0						0					
	Safety & Health	✓	/		/		/	/			/						/			/	/	
	Others																					

Loc moved 200' East

Orig - file
cc: Reg - Denver
Blm - Moab w/o [illegible]
State Oil and Gas

EIA NO. 616

LEASE U 14335 DATE 8-3-77

WELL NO. 24 Federal 335

LOCATION: SE ¼ NW ¼, SEC. 19, T. 19 S, R. 23 E,

FIELD Wildcat COUNTY Grand STATE Utah

ENVIRONMENTAL IMPACT ANALYSIS - ATTACHMENT 2-B

I. PROPOSED ACTION

Anschutz Corporation (COMPANY) PROPOSES TO DRILL AN OIL AND GAS TEST WELL WITH ROTARY TOOLS TO ABOUT 3934 FT. TD. 2) TO CONSTRUCT A DRILL PAD 125 FT. X 200 FT. AND A RESERVE PIT 50 FT. X 50 FT. 3) TO CONSTRUCT 16 FT. WIDE X ¼ MILES ACCESS ROAD AND UPGRADE FT. WIDE X MILES ACCESS ROAD FROM AN EXISTING AND IMPROVED ROAD. TO CONSTRUCT ☑ GAS ☐ OIL PRODUCTION FACILITIES ON THE DISTURBED AREA FOR THE DRILL PAD ~~AND ☐ TRUCK ☐ TRANSPORT THE PRODUCTION THROUGH A PIPELINE TO A TIE IN IN SECTION , T. , R. ,~~

2. LOCATION AND NATURAL SETTING (EXISTING ENVIRONMENTAL SITUATION).

(1) TOPOGRAPHY: ☑ ROLLING HILLS ☐ DISSECTED TOPOGRAPHY ☑ DESSERT OR PLAINS ☐ STEEP CANYON SIDES ☐ NARROW CANYON FLOORS ☐ DEEP DRAINAGE IN AREA ☐ SURFACE WATER

(2) VEGETATION: ☑ SAGEBRUSH ☑ PINION-JUNIPER ☐ PINE/FIR ☐ FARMLAND (CULTIVATED) ☐ NATIVE GRASSES ☑ OTHER greasewood

(3) WILDLIFE: [✓] DEER [ ] ANTELOPE [ ] ELK [ ] BEAR [✓] SMALL MAMMAL [✓] BIRDS [ ] ENDANGERED SPECIES [ ] OTHER _____

(4) LAND USE: [✓] RECREATION [✓] LIVESTOCK GRAZING [ ] AGRICULTURE [ ] MINING [ ] INDUSTRIAL [ ] RESIDENTIAL [✓] OIL & GAS OPERATIONS

REF: BLM UMBRELLA EAR Oil + Gas Leasing Program
~~USES EAR~~ Grand ~~[illegible]~~ Resource Area 8-13-75
~~OTHER ENVIRONMENTAL ANALYSIS~~

3. Effects on Environment by Proposed Action (potential impact)

1) EXHAUST EMISSIONS FROM THE DRILLING RIG POWER UNITS AND SUPPORT TRAFFIC ENGINES WOULD ADD MINOR POLLUTION TO THE ATMOSPHERE IN THE LOCAL VICINITY.

2) MINOR INDUCED AND ACCELERATED EROSION POTENTIAL DUE TO SURFACE DISTURBANCE AND SUPPORT TRAFFIC USE.

3) MINOR VISUAL IMPACTS FOR A SHORT TERM DUE TO OPERATIONAL EQUIPMENT AND SURFACE DISTURBANCE.

4) TEMPORARY DISTURBANCE OF WILDLIFE AND LIVESTOCK.

5) MINOR DISTRACTION FROM AESTHETICS FOR SHORT TERM.

6) Possible erosion due to steep sidehill fe

4. Alternatives to the Proposed Action

1) NOT APPROVING THE PROPOSED PERMIT -- THE OIL AND GAS LEASE GRANTS THE LESSEE EXCLUSIVE RIGHT TO DRILL FOR, MINE, EXTRACT, REMOVE AND DISPOSE OF ALL OIL AND GAS DEPOSITS.

2) DENY THE PROPOSED PERMIT AND SUGGEST AN ALTERNATE LOCATION TO MINIMIZE ENVIRONMENTAL IMPACTS. NO ALTERNATE LOCATION ON THIS LEASE WOULD JUSTIFY THIS ACTION.

3) LOCATION WAS MOVED 200 ft. East TO AVOID

☑ LARGE SIDEHILL CUTS ☐ NATURAL DRAINAGE ☐ OTHER

4)

5. Adverse Environmental Effects Which Cannot Be Avoided

1) MINOR AIR POLLUTION DUE TO EXHAUST EMISSIONS FROM RIG ENGINES AND SUPPORT TRAFFIC ENGINES.

2) MINOR INDUCED AND ACCELERATED EROSION POTENTIAL DUE TO SURFACE DISTURBANCE AND SUPPORT TRAFFIC USE.

3) MINOR AND TEMPORARY DISTURBANCE OF WILDLIFE.

4) TEMPORARY DISTURBANCE OF LIVESTOCK.

5) MINOR AND SHORT-TERM VISUAL IMPACTS.

6)

6. DETERMINATION:

(THIS REQUESTED ACTION ~~IS~~) (DOES NOT) CONSTITUTE A MAJOR FEDERAL ACTION SIGNIFICANTLY AFFECTING THE ENVIRONMENT IN THE SENSE OF NEPA, SECTION 102(2) (C).

DATE INSPECTED 8-3-77

INSPECTOR G. R. Cook

E W Guynn

U. S. GEOLOGICAL SURVEY
CONSERVATION DIVISION - OIL & GAS OPERATIONS
SALT LAKE CITY DISTRICT

JANUARY 27,1978

MEMO TO FILE:

RE: Anschutz Oil Corporation
Well No. #4 Federal 335
C SE NW Sec. 9, T. 19S., R. 23E.

Anschutz Oil Corporation notified this office that as of 11:00a.m., January 27, 1978, this well will be spudded in. Jacobs Drilling Company will be the prime contractor and Rig #1 will be used.

PATRICK L. DRISCOLL
CHIEF PETROLEUM ENGINEER

PLD/ksw

THE ANSCHUTZ CORPORATION

1110 DENVER CLUB BUILDING
518 SEVENTEENTH STREET
DENVER, COLORADO 80202
TELEPHONE 303—573-5665
TWX 910 931 2620

July 18, 1978

State of Utah
Dept. of Natural Resources
Division of Oil, Gas, and Mining
1588 West North Temple
Salt Lake City, Utah 84116

Attention: Kathy Ostler, Records Clerk

Dear Ms. Ostler:

As requested in your letter of June 8, 1978 the following is submitted.

To update your records the following wells have not yet been drilled and our plans have not changed.

Well No. Federal 258-#4, Sec. 5, T. 18S, R. 24E,
Grand County, Utah

Well No. Federal 335-#2, Sec. 20, T. 19S, R. 23E,
Grand County, Utah

Well No. Federal 335-#4, Sec. 19, T. 19S, R. 23E,
Grand County, Utah

Well No. Federal 350-#1, Sec. 4, T. 18S, R. 24E,
Grand County, Utah

Well No. State 400-#1, Sec. 17, T. 16S, R. 23E,
Grand County, Utah

Well No. State 402-#1, Sec. 36, T. 17S, R. 20E,
Grand County, Utah

Well No. State 404-#1, Sec. 23, T. 17S, R. 21E,
Grand County, Utah

Well No. State 411-#2, Sec. 23, T. 18S, R. 20E,
Grand County, Utah

Well No. State 414-#1, Sec. 32, T. 18S, R. 21E,
Grand County, Utah

THE ANSCHUTZ CORPORATION

2400 ANACONDA TOWER
555 SEVENTEENTH STREET
DENVER, COLORADO 80202
TELEPHONE 303-825-6100
TWX 910-931-2620

May 15, 1979

Mr. Cleon B. Feight, Director
Division of Oil, Gas & Mining
State of Utah
1588 West, North Temple
Salt Lake City, Utah 84116

Dear Mr. Feight:

The following wells have not commenced drilling and have been removed from our active files. Hence we no longer plan upon drilling them.

Federal 335 No. 2
Federal 335 No. 4
Federal 4275 No. 1
Federal 7674 No. 1

The following wells have not yet commenced drilling pending further geological evaluation:

Federal 258 No. 4
Federal 258 No. 7
Federal 258 No. 8
Federal 350 No. 1
Federal 350 No. 2
Federal 350 No. 3
State 400 No. 1
State 404 No. 1
State 414 No. 1
Federal 675 No. 3
State 7265 No. 2
State 7265 No. 3
Federal 4076 No. 14-23
State 920 No. 1

We are sorry if our lack of correspondence has created an inconvenience for you.

Very truly yours,

Peter B. Doty
Operations Coordinator

PBD:jp

P.S. Enclosed are the forms you requested on the Federal 675 No. 2.